

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Electronic display and control device for a geodetic measuring device (~~12, 12'~~) which has a radiation source (~~8~~) for emission of a visible or invisible radiation beam (~~S~~) for carrying out a measuring process,

- comprising electronic display means (~~3~~) for visual display of a measuring range (~~9~~) acquired by recording means (~~1, 1'~~),
- comprising input means (~~4~~) for inputting data and for controlling the recording means (~~1, 1'~~) and the measuring process,

at least one position mark (~~3a~~), preferably a crosshair, being provided by the display means (~~3~~), and

the fixing of a measuring point for three-dimensional surveying being determined by positioning of the position mark (~~3a~~),

characterized in that

alignment means (~~9, 9', 9''~~) are present which permit variable alignment of the emission direction of the radiation beam (~~S~~) relative to the orientation of the recording means (~~1, 1'~~), alignment means (~~9, 9', 9''~~) and recording means (~~1, 1'~~) being designed

and arranged so that the radiation beam (S) is coordinated at least partly with at least one optical component (6) of the recording means (1, 1'), in particular is emitted by means of this component (6).

2. (Currently Amended) Electronic display and control device according to Claim 1, characterized in that the alignment means (9, 9', 9'') are designed so that the alignment of the radiation beam (S) is effected in such a way that, in the display of the acquired measuring range (11), the position (3e) of the radiation beam is made to coincide with the position mark (3a) so that the radiation beam (S) is utilized for carrying out the measuring process.

3. (Currently Amended) Electronic display and control device according to Claim 1 or 2, characterized in that the alignment means (9, 9', 9'') have at least one of the following means

- servo elements (9) for two-dimensional movement of the radiation source,
- a rotatable and/or tiltable reflecting surface (9'),
- a, preferably continuously, deformable reflecting surface,
- a transmittive double wedge (9'') rotatable relative to one another.

4. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that a calibration control device is present which has an image sensor (1e) which detects the emission direction of the radiation beam (S) so that detection of the emission direction of the radiation beam (S) independently of the recording means (1, 1') takes place.

5. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the display means (3) are designed so that display of the radiation beam (S) in the measuring range (11) is effected by at least one pixel displayed in a distinguishable manner, which is effected either

- by calculation of the position of the radiation beam (S) in the measuring range (11) and electronic enhancement of the pixel coordinated with this position or
- by direct optical imaging of the radiation within the recording means (1, 1').

6. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the position mark (3a) can be positioned by the input means (4) within the visual display (3), preferably in discrete steps, in particular pixel by pixel.

7. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the input means (4) and/or display means (3) are designed so that, by the positioning of the position mark (3a), at least a part of the measuring process is initiated, in particular

- the control of the recording means (1, 1') and/or
- the control of the alignment means (9, 9', 9'') is effected.

8. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the visual display of the acquired measuring range (11) or of parts of the measuring range (11) can be made smaller, can be made larger and/or can be changed in its resolution by the recording means (1, 1') and/or display means

(3), in particular by a variation of the, preferably electronic, assignment of the data of pixels of the recording means (1, 1') to pixels of the display means (3).

9. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the recording means (1, 1') comprise at least one of the following means

- CCD camera,
- CMOS camera,
- video camera,
- low light level amplifier,
- thermal imaging camera,
- spectrally selective detector,
- spectral filter.

10. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the recording means have an autofocus system (6') which is part of the objective or is positioned outside the objective in the beam path.

11. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the display means (3) comprise at least one of the following means

- LCD display,
- cathode ray tube,
- flat screen,

- interface to communication networks,
- electronic computer with monitor, preferably portable laptop.

12. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the input means ~~(4)~~ comprise at least one of the following means

- touch-sensitive screen,
- touch-sensitive input field,
- keyboard field,
- joystick,
- trackball,
- computer mouse,
- interface to communication networks,
- electronic computer with input device, preferably a portable laptop.

13. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that the electronic display means ~~(3)~~ and the input means ~~(4)~~ are combined in one component, preferably a touch-sensitive flat screen ~~(2')~~.

14. (Currently Amended) Electronic display and control device according to ~~any of the preceding Claims~~ Claim 1, characterized in that recording means ~~(1, 1')~~ and alignment means ~~(9, 9', 9'')~~ are in the form of an independent module and are connected to the other components via a wire connection ~~(5)~~ or a radio link.

15. (Currently Amended) Geodetic measuring device ~~(12, 12')~~,

- comprising a radiation source (8) for emission of a visible or invisible radiation beam (S) for carrying out a measuring process,
- comprising a receiving device (14) for acquiring radiation of the reflected radiation beam-(S) and converting this radiation into signals,
- comprising electronic evaluation means for evaluating the signals and
- comprising an electronic display and control device according to ~~any of Claims 1 to 14~~ Claim 1.

16. (Currently Amended) Geodetic measuring device (12, 12') according to Claim 15, characterized by orientation means (10) for orienting the recording means (1, 1') relative to a measuring range (11).

17. (Currently Amended) Geodetic measuring device (8, 8') according to Claim 16, characterized by further input means for controlling the orientation means (10).

18. (Currently Amended) Geodetic measuring device (12, 12') according to ~~any of Claims 15 to 17~~ Claim 15, characterized in that the electronic display and control device is designed so that, by positioning of the position mark (3a), the determination of at least one parameter of the measuring process, in particular

- the fixing of a measuring point for three-dimensional surveying,
- the control of the recording means (1, 1'),

- the control of the alignment means (~~9, 9', 9''~~) and/or
- the control of the orientation means (~~10~~), is effected.

19. (Currently Amended) Geodetic measuring device (~~12, 12'~~) according to ~~any of Claims 16 to 18~~ Claim 16, characterized in that the radiation source (8) and the receiving device (14) are arranged on a movable support element (~~15, 15', 15''~~).

20. (Currently Amended) Geodetic measuring device (~~12, 12'~~) according to ~~any of Claims 16 to 19~~ Claim 16, characterized in that radiation source (8), receiving device (14) and alignment means (~~9, 9', 9''~~) are formed and arranged in such a way that both radiation emitted by the radiation source (8) and radiation to be received by the receiving device (14) are guided via the alignment means (~~9, 9', 9''~~), in particular a transmittive double wedge (~~9'''~~) rotatable relative to one another.

21. (Currently Amended) Geodetic measuring device (~~12, 12'~~) according to ~~any of Claims 16 to 20~~ Claim 16, characterized in that the orientation means have a device, in particular attachable device, for alignment of the geodetic measuring device (~~12, 12'~~) relative to a reference point, preferably a triangulation point, in particular in association with a movement of the recording means (~~1, 1'~~) from the orientation necessary for acquisition of the measuring range (~~11~~) into an orientation for detection of the reference point.

22. (Currently Amended) Geodetic measuring device (~~12, 12'~~) according to ~~any of Claims 15 to 21~~ Claim 15, characterized in that the input means (4) and/or the display means (3) are mounted so as to be movable independently of an alignment of the geodetic measuring device (~~12, 12'~~), in particular pivotable about a horizontal axis (A).

23. (Currently Amended) Module component for a geodetic surveying system, comprising

- integrated input means and/or display means (3) of a geodetic measuring device (12, 12') according to ~~any of Claims 15 to 22~~ Claim 15, and
- means for establishing a wire connection (5) or a radio link to the geodetic measuring device (12, 12') and optionally to at least one further geodetic measuring device (12, 12').

24. (Currently Amended) Geodetic surveying system,

- comprising at least two geodetic measuring devices (12, 12') according to ~~any of Claims 15 to 22~~ Claim 15 and
- comprising at least one module component comprising
- integrated input means and/or display means of the geodetic measuring device,
and
- means for establishing a wire connection or a radio link to the geodetic measuring device and optionally to at least one further geodetic measuring device.

~~according to Claim 23,~~

the at least one module component being in the form of common input means and/or common display means (3) for the at least two geodetic measuring devices (12, 12'), optionally with alternate use thereof.